pennsylvania
DEPARTMENT OF ENVIRONMENTAL PROTECTION

Southeast Regional Office
CLEAN WATER PROGRAM

Application Type	**Renewal**	Application No.	**PA0244422**
Facility Type	**Storm Water**	APS ID	**1100738**
Major / Minor	**Minor**	Authorization ID	**1461498**

NPDES PERMIT FACT SHEET INDIVIDUAL INDUSTRIAL WASTE (IW) AND IW STORMWATER

Applicant and Facility Information

Applicant Name	**Norfolk Southern Railway Co.**	Facility Name	**Norfolk Southern King Of Prussia Facility**
Applicant Address	650 W Peachtree Street NW Box 27 Atlanta, GA 30308-1925	Facility Address	850 N Henderson Road King Of Prussia, PA 19406
Applicant Contact	Terri Allen	Facility Contact	Christopher Hunsicker
Applicant Phone	(404) 904-5122	Facility Phone	(412) 445-4456
Client ID	87064	Site ID	594923
SIC Code	4011	Municipality	Upper Merion Township
SIC Description	Trans. & Utilities - Railroads, Line-Haul Operating	County	Montgomery
Date Application Received	November 2, 2023	EPA Waived?	Yes
Date Application Accepted	February 15, 2024	If No, Reason	
Purpose of Application	NPDES permit renewal.		

Summary of Review

The Pa Department of Environmental Protection (PADEP/Department) received an NPDES permit renewal application from Norfolk Southern Railway Company (permittee) on November 2, 2023 permittee's King of Prussia Facility (facility). This is a minor individual industrial stormwater facility that discharges into Schuylkill River (WWF, MF) in state watershed 3-F. The current permit will expire on April 30, 2024. The terms and conditions of the current permit is automatically extended since the renewal application is received at least 180 days prior to expiration date. Renewal NPDES permit application under Clean Water Program are not covered by PADEP's PDG per 021-2100-001. This fact sheet is developed in accordance with 40 CFR §124.56.

Changes to existing permit: Removed: Outfall 003.

Public Participation

DEP will publish notice of the receipt of the NPDES permit application and a tentative decision to issue the individual NPDES permit in the *Pennsylvania Bulletin* in accordance with 25 Pa. Code § 92a.82. Upon publication in the *Pennsylvania Bulletin*, DEP will accept written comments from interested persons for a 30-day period (which may be extended for one additional 15-day period at DEP's discretion), which will be considered in making a final decision on the application. Any person may request or petition for a public hearing with respect to the application. A public hearing may be held if DEP determines that there is significant public interest in holding a hearing. If a hearing is held, notice of the hearing will be published in the *Pennsylvania Bulletin* at least 30 days prior to the hearing and in at least one newspaper of general circulation within the geographical area of the discharge.

Approve	Deny	Signatures	Date
√		Reza H. Chowdhury, E.I.T. / Project Manager	February 20, 2024
X		Pravin Patel Pravin C. Patel, P.E. / Environmental Engineer Manager	02/21/2024

Discharge, Receiving Waters and Water Supply Information			
Outfall No.	001	Design Flow (MGD)	0
Latitude	40º 6' 57"	Longitude	-75º 23' 37.3"
Quad Name	Valley Forge	Quad Code	1842
Wastewater Description:	Stormwater		
Receiving Waters	Schuylkill River (WWF, MF)	Stream Code	00833
NHD Com ID	26003404	RMI	27.42
Drainage Area		Yield (cfs/mi^2)	
Q_{7-10} Flow (cfs)		Q_{7-10} Basis	
Elevation (ft)		Slope (ft/ft)	
Watershed No.	3-F	Chapter 93 Class.	WWF, MF
Existing Use		Existing Use Qualifier	
Exceptions to Use		Exceptions to Criteria	
Assessment Status	Impaired		
Cause(s) of Impairment	POLYCHLORINATED BIPHENYLS (PCBS)		
Source(s) of Impairment	SOURCE UNKNOWN		
TMDL Status	Final	Name	Schuylkill River PCB TMDL

Changes Since Last Permit Issuance: None

Discharge, Receiving Waters and Water Supply Information			
Outfall No.	004	Design Flow (MGD)	0
Latitude	40º 6' 56.4"	Longitude	-75º 23' 7.4"
Quad Name	Valley Forge	Quad Code	1842
Wastewater Description:	Stormwater		
Receiving Waters	Schuylkill River (WWF, MF)	Stream Code	00833
NHD Com ID	26003404	RMI	27.11
Drainage Area		Yield (cfs/mi^2)	
Q_{7-10} Flow (cfs)		Q_{7-10} Basis	
Elevation (ft)		Slope (ft/ft)	
Watershed No.	3-F	Chapter 93 Class.	WWF, MF
Existing Use		Existing Use Qualifier	
Exceptions to Use		Exceptions to Criteria	
Assessment Status	Impaired		
Cause(s) of Impairment	POLYCHLORINATED BIPHENYLS (PCBS)		
Source(s) of Impairment	SOURCE UNKNOWN		
TMDL Status	Final	Name	Schuylkill River PCB TMDL

Changes Since Last Permit Issuance: Tank 8 was moved to a location south of the car shop, which drains to Outfall 004 eliminating Outfall 003 from sampling as no industrial activities take place.

Other Comments:
Norfolk Southern Railroad Company (NSRC/permittee) owns and operates a railroad yard named “Abrams Yard” (facility), located in 850 N Henderson Road, King of Prussia, PA 19406, in Upper Merion Township, Montgomery County. The SIC code for the industrial activities conducted with the facility boundary is 4011-Railroads, Line-Haul Operations, which requires the Appendix L monitoring and BMPs, at a minimum. The industrial activities conducted at the facility include locomotive lubrication, locomotive fueling, equipment fueling, and railcar repair and maintenance. Locomotive lubrication

is performed in the central yard area adjacent to Tank 2. NSRC personnel add lube oil to locomotives that are staged on the railroad tracks with track matting from Tank 2 using a nitrile hose with a nozzle. Locomotive fueling occurs via direct-to-locomotive (DTL) fueling which is where a vendor transfers diesel fuel directly from their mobile tanker truck to a locomotive's fuel tank. DTL fueling is performed in the central yard area where locomotives are staged on two sets of railroad tracks with track matting located north and west of Tank 2. Equipment fueling is performed adjacent to Tank 8 located south of the car shop. NSRC personnel utilize a nitrile hose and nozzle from Tank 8 to pump diesel fuel into NSRC equipment as needed. Railcar repair and maintenance is conducted by NSRC personnel inside the southern section of the car shop. Other activities that occur at the facility include bulk storage of petroleum products and outdoor storage of track maintenance materials and equipment. Bulk petroleum products are stored at the facility in ASTs, totes, and drums. There are no manufacturing processes or major engine repairs performed at this facility.

Waste generated at the facility includes a small amount of used oil which is stored in 55-gallon steel drums or a 275-gallon plastic tote, municipal solid waste, and scrap metal which are stored in roll-off or covered dumpsters. Once the units are filled, NSRC personnel arrange for transportation and proper off-site disposal/handling.

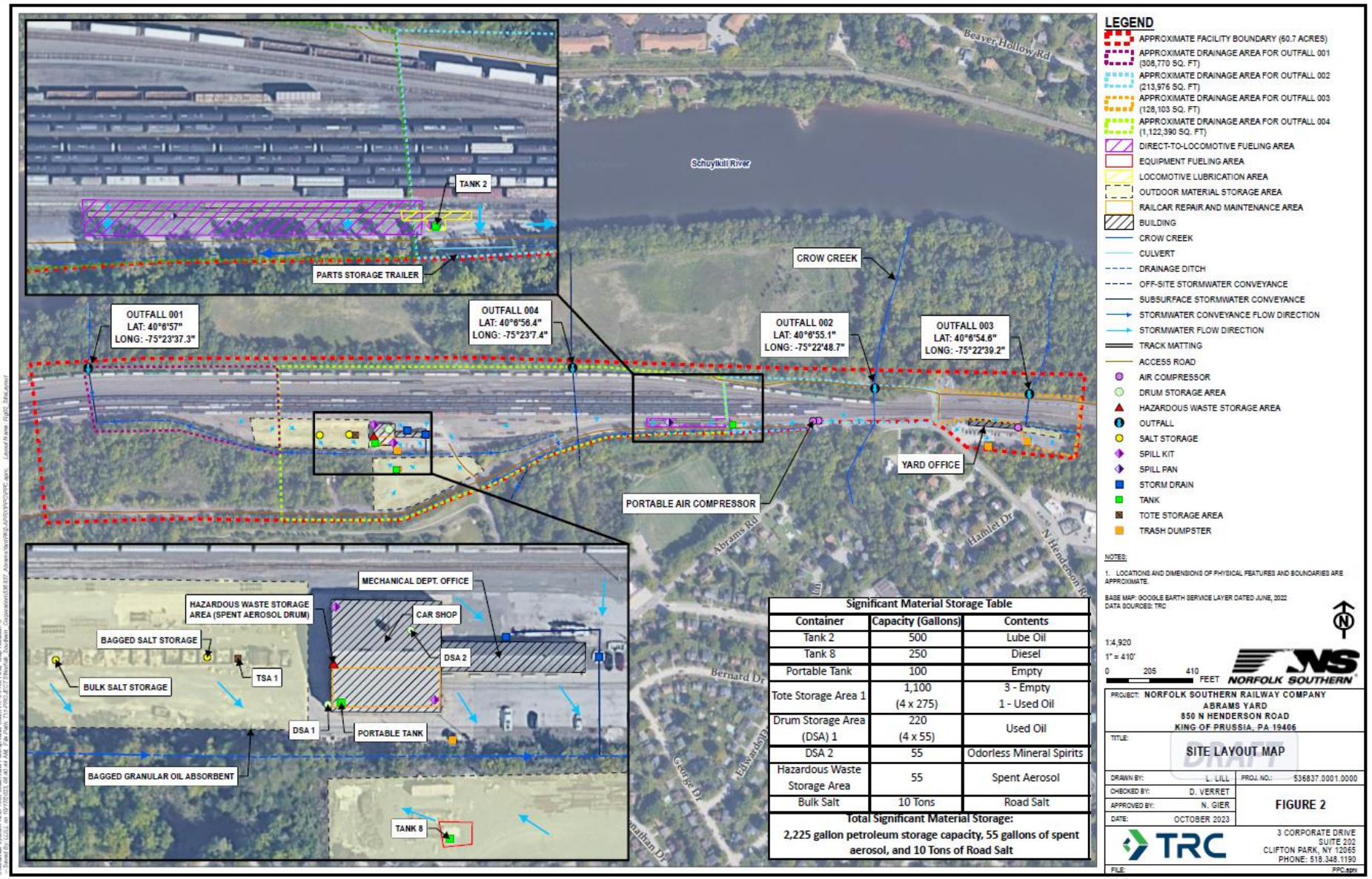
There are four (4) stormwater outfalls identified at the facility, Outfalls 001 through 004.

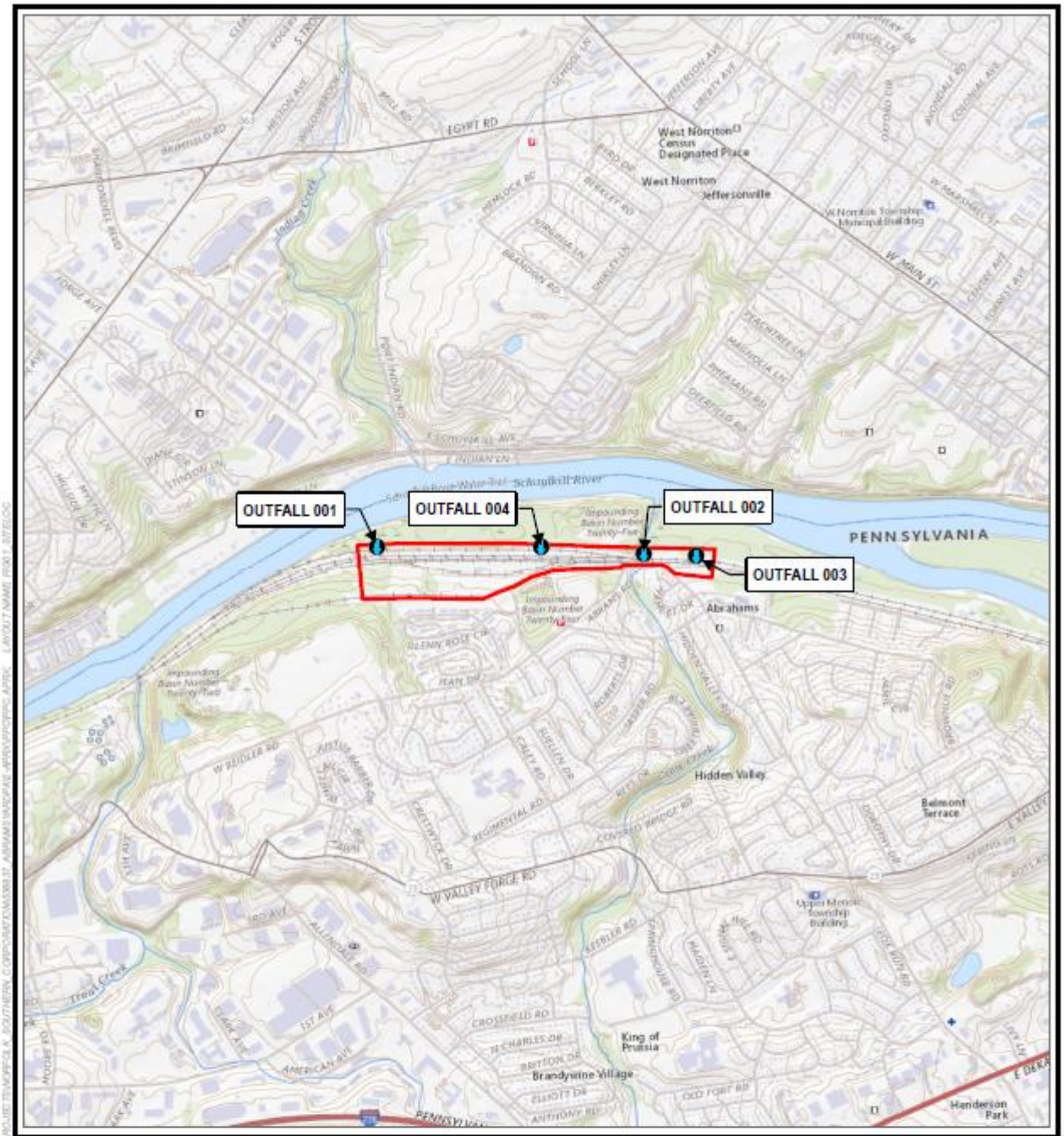
Outfall 001: Stormwater from western portion of the facility within the drainage area of Outfall 001 either infiltrates through graveled yard areas and track ballast or flows southwest into a drainage ditch that flows west. Stormwater from the drainage ditch discharges into a subsurface storm conveyance that flows north and discharges off-site through Outfall 001, which eventually ends up in the Schuylkill River. There are no industrial activities conducted in the drainage area for Outfall 001, however, the permittee stores various track maintenance supplies outdoors in this area.

Outfall 002: Stormwater from the central portion of the facility within the drainage area of Outfall 002 generally flows towards Crow Creek. On the south side of the railroad tracks, stormwater either infiltrates through track ballast or flows south via sheet flow onto the facility's access road or Abrams Road. In the area west of Crow Creek, stormwater that reaches the access road flows east along the north side of the access road and continues to flow east along the north side of Abrams Road until it discharges into Crow Creek. In the areas east of Crow Creek, stormwater flows south via sheet flow then west along the north side of Abrams Road until it discharges into Crow Creek. On the north side of the railroad tracks, stormwater either infiltrates or flows into Crow Creek via sheet flow. Outfall 002 has been identified as a point in Crow Creek on the north side of the railroad tracks. As there's no defined point for sampling, this outfall isn't historically subjected to monitoring requirements.

Outfall 003: On the eastern end of the Facility near the Yard Office, stormwater from the paved parking lot flows west via sheet flow towards N Henderson Rd. On the north side of the Yard Office stormwater either infiltrates through graveled yard areas or flows east towards a drainage ditch. Stormwater from areas east of the Yard Office are expected to infiltrate through gravel yard areas or flow north via sheet flow towards a drainage ditch. Stormwater collected in the drainage ditch flows north via a subsurface stormwater conveyance and discharges off-site from Outfall 003. Stormwater discharged from this point eventually flows into the Schuylkill River located to the north. There are no industrial activities conducted in the area that drains to Outfall 003. This outfall was monitored in the current permit due to the presence of Tank 8. Since this tank is moved to drainage area of Outfall 004, this outfall may be considered as no exposure outfall and may be removed from sampling requirements.

Outfall 004: In the central portion of the Facility within the drainage area of Outfall 004, stormwater either infiltrates through graveled yard areas and track ballast or flows into one of the drainage ditches that lead to Outfall 004. In the eastern portion of the drainage area, where locomotive fueling is conducted, stormwater flows south across an access road and into a drainage ditch that flows west. In the central and western portions of the drainage area, stormwater either infiltrates through graveled yard areas or flows into the drainage ditch located south and east of the Car Shop. Stormwater from the equipment fueling area adjacent to Tank 8 is expected to infiltrate through graveled yard areas or flow northwest via sheet flow and discharge into the drainage ditch behind the Car Shop. Stormwater collected in the drainage ditch behind the Car Shop flows east then south under the access road via a subsurface stormwater conveyance. Stormwater from the drainage ditches in Outfall 004's drainage area converges at a point near the bend in the access road where a subsurface stormwater conveyance directs all stormwater to the north towards Outfall 004. Stormwater discharged from Outfall 004 flows north for approximately 50 ft then enters an off-site stormwater conveyance that direct the discharge into the Schuylkill River. Two sources of off-site stormwater were identified south of the access road in Outfall 004's drainage area. Areas upstream of the access road appeared to be for forested or residential use and are not expected to contribute pollutants to stormwater discharges at Outfall 004.





Compliance History

DMR Data for Outfall 001 (from January 1, 2023 to December 31, 2023)

Parameter	DEC-23	NOV-23	OCT-23	SEP-23	AUG-23	JUL-23	JUN-23	MAY-23	APR-23	MAR-23	FEB-23	JAN-23
pH (S.U.) Daily Maximum	6.0						6.5					
CBOD5 (mg/L) Daily Maximum	< 2.0						< 2.0					
COD (mg/L) Daily Maximum	16						< 10					
TSS (mg/L) Daily Maximum	4.5						1.4					
Oil and Grease (mg/L) Daily Maximum	2.7						2.8					
TKN (mg/L) Daily Maximum	< 1.0						1.4					
Total Phosphorus (mg/L) Daily Maximum	< 0.1						0.093					
Total Iron (mg/L) Daily Maximum	83						0.12					

DMR Data for Outfall 003 (from January 1, 2023 to December 31, 2023)

Parameter	DEC-23	NOV-23	OCT-23	SEP-23	AUG-23	JUL-23	JUN-23	MAY-23	APR-23	MAR-23	FEB-23	JAN-23
pH (S.U.) Daily Maximum	6.0						6.5					
CBOD5 (mg/L) Daily Maximum	< 2.0						< 2.0					
COD (mg/L) Daily Maximum	14						< 10					
TSS (mg/L) Daily Maximum	2.4						1.4					
Oil and Grease (mg/L) Daily Maximum	3.0						2.8					
TKN (mg/L) Daily Maximum	< 1.0						1.4					
Total Phosphorus (mg/L) Daily Maximum	< 0.1						< 0.76					
Total Iron (mg/L) Daily Maximum	< 100						0.12					

DMR Data for Outfall 004 (from January 1, 2023 to December 31, 2023)

Parameter	DEC-23	NOV-23	OCT-23	SEP-23	AUG-23	JUL-23	JUN-23	MAY-23	APR-23	MAR-23	FEB-23	JAN-23
pH (S.U.) Daily Maximum	6.0						7.0					
CBOD5 (mg/L) Daily Maximum	4.5						< 2.0					
COD (mg/L) Daily Maximum	7.8						< 10					
TSS (mg/L) Daily Maximum	2.5						0.88					
Oil and Grease (mg/L) Daily Maximum	1.6						3.9					
TKN (mg/L) Daily Maximum	< 1.0						1.1					
Total Phosphorus (mg/L) Daily Maximum	< 0.1						< 0.1					
Total Iron (mg/L) Daily Maximum	< 100						0.12					

Compliance History	
Summary of Inspections:	09/21/2021: CEI conducted. No violation noted.

BMPs:
Outfall 001: Routine facility inspections, routine yard cleanup, graveled yard area to promote stormwater infiltration.
Outfall 002: Secondary containment for Tank 2, placement of track matting where locomotive lubrication and locomotive fueling occurs, routine facility inspections, routine yard cleanup, spill response equipment, and storage of materials in a trailer to prevent stormwater exposure.
Outfall 003: Routine facility inspections, routine yard cleanup, graveled yard area to promote stormwater infiltration.
Outfall 004: Secondary containment for Tank 8, placement of track matting where DTL fueling occurs, spill pan in the DTL fueling area, railcar repair and maintenance conducted inside Car Shop, covered drum storage areas, routine facility inspections, routine yard cleanup, and spill response equipment.

Development of Effluent Limitations

Outfall No. 001 **Design Flow (MGD)** n/a
Latitude 40º 06' 57" **Longitude** -75º 23' 37.3"
Wastewater Description: Industrial Stormwater

Outfall No. 004 **Design Flow (MGD)** n/a
Latitude 40º 06' 56.4" **Longitude** -75º 23' 7.4"
Wastewater Description: Industrial Stormwater

Stormwater Technology Limits

Outfalls 001 and 004 will be subject to PAG-03 General Stormwater permit conditions as a minimum requirement because the outfalls discharge stormwater associated with industrial activity. The SIC code for the site is 4011-Railroads, Line-Haul Operations and the corresponding appendix of the PAG-03 that would apply to the facility is Appendix L- Land Transportation and Petroleum Stations and Terminals. The reporting requirements applicable to stormwater discharges are shown in Table 1 below. Along with the monitoring requirements, sector specific BMPs included in Appendix L of the PAG-03 will also be included in Part C of the Draft Permit.

Table 1: PAG03 Appendix L monitoring requirements:

Pollutant	Monitoring Requirements (1),(2)		Benchmark Values
	Minimum Measurement Frequency	Sample Type	
Total Nitrogen (mg/L) (3)	1 / 6 months	Calculation	XXX
Total Phosphorus (mg/L)	1 / 6 months	Grab	XXX
Total Suspended Solids (TSS) (mg/L)	1 / 6 months	Grab	100
Oil and Grease (mg/L)	1 / 6 months	Grab	30

Footnotes

(1) In accordance with Part C V.C, the permittee shall conduct additional monitoring if specified by DEP in the letter authorizing permit coverage or other correspondence.

(2) This is the minimum number of sampling events required. Permittees may optionally perform additional sampling.

(3) Total Nitrogen is the sum of Total Kjeldahl-N (TKN) plus Nitrite-Nitrate as N (NO_2+NO_3-N), where TKN and NO_2+NO_3-N are measured in the same sample.

The current permit has the following requirements in Part A for both outfalls:

Parameter	Effluent Limitations						Monitoring Requirements	
	Mass Units (lbs/day)		Concentrations (mg/L)				Minimum (1) Measurement Frequency	Required Sample Type
	Average Monthly	Average Weekly	Minimum	Average Monthly	Daily Maximum	Instant. Maximum		
pH (S.U.)	XXX	XXX	XXX	XXX	Report	XXX	1/6 months	Grab
CBOD5	XXX	XXX	XXX	XXX	Report	XXX	1/6 months	Grab
COD	XXX	XXX	XXX	XXX	Report	XXX	1/6 months	Grab
TSS	XXX	XXX	XXX	XXX	Report	XXX	1/6 months	Grab
Oil and Grease	XXX	XXX	XXX	XXX	Report	XXX	1/6 months	Grab
Total Kjeldahl Nitrogen	XXX	XXX	XXX	XXX	Report	XXX	1/6 months	Grab
Total Phosphorus	XXX	XXX	XXX	XXX	Report	XXX	1/6 months	Grab
Iron, Total	XXX	XXX	XXX	XXX	Report	XXX	1/6 months	Grab
PCBs, Total (pg/l)	XXX	XXX	XXX	XXX	Report	XXX	1/year (only on 5th year)	Grab

The statewide PAG03 permit was renewed with an effective date of March 24, 2023 and expiration date of March 23, 2028. This renewed PAG03 includes more parameters and expanded Appendix J into numerous sector specific appendices. The renewal permit for this facility will combine existing parameters and new PAG03 parameters (only added parameter is Total Nitrogen).

PCBs: Current permit has PCBs sampling requirements for the 5th year of the permit due to the receiving stream having TMDL for PCBs. The permittee submitted sample results for Outfalls 001, 003, and 004. Results of all seven congeners for all three outfalls are non-detect at a QL of 0.38 ug/l. The QL used for sample analysis was higher than PADEP's Target Quantitation Limit (TQL) of 0.25 ug/l; therefore, it is still not clear if Total PCBs would be detected at PADEP's TQL. Because the receiving watershed is impaired for PCBs and has an EPA approved TMDL, the permittee shall demonstrate compliance with the assumptions of the TMDL. The permittee will be required to collect and analyze one Total PCBs sample during the permit term, using EPA Method 1668A, at or below PADEP's TQL. Based on the sample results, the permittee may request for a permit amendment during the permit term. If a permit amendment application isn't submitted after the permittee meets the sampling obligation, they can report No Discharge code "GG" for the remainder of the permit term.

Water Quality-Based Limitations

Stormwater WQBELs

Water quality analyses are typically performed under low-flow (Q7-10) stream conditions. Stormwater discharges occur at variable rates and frequencies but not however during Q7-10 conditions. Since the discharge from Outfall 002 is composed entirely of stormwater, a formal water quality analysis cannot be accurately conducted. Accordingly, water quality-based effluent limitations are not proposed.

Anti-Degradation

The receiving stream, Schuylkill River, is a WWF/MF waterbody in Ch. 93. Since the discharge in not into a High Quality (HQ) or Exceptional Value (EV) watershed, Anti-degradation provision isn't applicable.

Total Maximum Daily Loads:

The discharge is in Schuylkill River which has a PCB TMDL. The permittee collected and analyzed a sample for PCBs and the results show PCBs are not a concern for this facility.

Anti-backsliding:

Proposed limits are at least as stringent as were in the existing permit, unless noted otherwise. Therefore, anti-backsliding provision isn't applicable.

Proposed Effluent Limitations and Monitoring Requirements

The limitations and monitoring requirements specified below are proposed for the draft permit, and reflect the most stringent limitations amongst technology, water quality and BPJ. Instantaneous Maximum (IMAX) limits are determined using multipliers of 2 (conventional pollutants) or 2.5 (toxic pollutants). Sample frequencies and types are derived from the "NPDES Permit Writer's Manual" (386-0400-001), SOPs and/or BPJ.

Outfall 001, Effective Period: Permit Effective Date through Permit Expiration Date.

Parameter	Effluent Limitations						Monitoring Requirements	
	Mass Units (lbs/day) (1)		Concentrations (mg/L)				Minimum (2) Measurement Frequency	Required Sample Type
	Average Monthly	Average Weekly	Minimum	Daily Maximum	Daily Maximum	Instant. Maximum		
pH (S.U.)	XXX	XXX	XXX	XXX	Report	XXX	1/6 months	Grab
CBOD5	XXX	XXX	XXX	XXX	Report	XXX	1/6 months	Grab
COD	XXX	XXX	XXX	XXX	Report	XXX	1/6 months	Grab
TSS	XXX	XXX	XXX	XXX	Report	XXX	1/6 months	Grab
Oil and Grease	XXX	XXX	XXX	XXX	Report	XXX	1/6 months	Grab
Total Nitrogen	XXX	XXX	XXX	XXX	Report	XXX	1/6 months	Calculation
TKN	XXX	XXX	XXX	XXX	Report	XXX	1/6 months	Grab
Total Phosphorus	XXX	XXX	XXX	XXX	Report	XXX	1/6 months	Grab
Total Iron	XXX	XXX	XXX	XXX	Report	XXX	1/6 months	Grab
PCBs, Total (pg/L)	XXX	XXX	XXX	Report*	XXX	XXX	1/year	Grab

Compliance Sampling Location: At Outfall 001

Other Comments:

Proposed Effluent Limitations and Monitoring Requirements

The limitations and monitoring requirements specified below are proposed for the draft permit, and reflect the most stringent limitations amongst technology, water quality and BPJ. Instantaneous Maximum (IMAX) limits are determined using multipliers of 2 (conventional pollutants) or 2.5 (toxic pollutants). Sample frequencies and types are derived from the "NPDES Permit Writer's Manual" (386-0400-001), SOPs and/or BPJ.

Outfall 004, Effective Period: Permit Effective Date through Permit Expiration Date.

Parameter	Effluent Limitations						Monitoring Requirements	
	Mass Units (lbs/day) (1)		Concentrations (mg/L)				Minimum (2) Measurement Frequency	Required Sample Type
	Average Monthly	Average Weekly	Minimum	Daily Maximum	Daily Maximum	Instant. Maximum		
pH (S.U.)	XXX	XXX	XXX	XXX	Report	XXX	1/6 months	Grab
CBOD5	XXX	XXX	XXX	XXX	Report	XXX	1/6 months	Grab
COD	XXX	XXX	XXX	XXX	Report	XXX	1/6 months	Grab
TSS	XXX	XXX	XXX	XXX	Report	XXX	1/6 months	Grab
Oil and Grease	XXX	XXX	XXX	XXX	Report	XXX	1/6 months	Grab
Total Nitrogen	XXX	XXX	XXX	XXX	Report	XXX	1/6 months	Calculation
TKN	XXX	XXX	XXX	XXX	Report	XXX	1/6 months	Grab
Total Phosphorus	XXX	XXX	XXX	XXX	Report	XXX	1/6 months	Grab
Total Iron	XXX	XXX	XXX	XXX	Report	XXX	1/6 months	Grab
PCBs, Total (pg/L)	XXX	XXX	XXX	Report*	XXX	XXX	1/year	Grab

Compliance Sampling Location: At Outfall 004

Other Comments:

Tools and References Used to Develop Permit	
☐	WQM for Windows Model (see Attachment)
☐	Toxics Management Spreadsheet (see Attachment)
☐	TRC Model Spreadsheet (see Attachment)
☐	Temperature Model Spreadsheet (see Attachment)
☐	Water Quality Toxics Management Strategy, 361-0100-003, 4/06.
☐	Technical Guidance for the Development and Specification of Effluent Limitations, 386-0400-001, 10/97.
☐	Policy for Permitting Surface Water Diversions, 386-2000-019, 3/98.
☐	Policy for Conducting Technical Reviews of Minor NPDES Renewal Applications, 386-2000-018, 11/96.
☐	Technology-Based Control Requirements for Water Treatment Plant Wastes, 386-2183-001, 10/97.
☐	Technical Guidance for Development of NPDES Permit Requirements Steam Electric Industry, 386-2183-002, 12/97.
☐	Pennsylvania CSO Policy, 386-2000-002, 9/08.
☐	Water Quality Antidegradation Implementation Guidance, 391-0300-002, 11/03.
☐	Implementation Guidance Evaluation & Process Thermal Discharge (316(a)) Federal Water Pollution Act, 386-2000-008, 4/97.
☐	Determining Water Quality-Based Effluent Limits, 386-2000-004, 12/97.
☐	Implementation Guidance Design Conditions, 386-2000-007, 9/97.
☐	Technical Reference Guide (TRG) WQM 7.0 for Windows, Wasteload Allocation Program for Dissolved Oxygen and Ammonia Nitrogen, Version 1.0, 386-2000-016, 6/2004.
☐	Interim Method for the Sampling and Analysis of Osmotic Pressure on Streams, Brines, and Industrial Discharges, 386-2000-012, 10/1997.
☐	Implementation Guidance for Section 95.6 Management of Point Source Phosphorus Discharges to Lakes, Ponds, and Impoundments, 386-2000-009, 3/99.
☐	Technical Reference Guide (TRG) PENTOXSD for Windows, PA Single Discharge Wasteload Allocation Program for Toxics, Version 2.0, 386-2000-015, 5/2004.
☐	Implementation Guidance for Section 93.7 Ammonia Criteria, 386-2000-022, 11/97.
☐	Policy and Procedure for Evaluating Wastewater Discharges to Intermittent and Ephemeral Streams, Drainage Channels and Swales, and Storm Sewers, 386-2000-013, 4/2008.
☐	Implementation Guidance Total Residual Chlorine (TRC) Regulation, 386-2000-011, 11/1994.
☐	Implementation Guidance for Temperature Criteria, 386-2000-001, 4/09.
☐	Implementation Guidance for Section 95.9 Phosphorus Discharges to Free Flowing Streams, 386-2000-021, 10/97.
☐	Implementation Guidance for Application of Section 93.5(e) for Potable Water Supply Protection Total Dissolved Solids, Nitrite-Nitrate, Non-Priority Pollutant Phenolics and Fluorides, 386-2000-020, 10/97.
☐	Field Data Collection and Evaluation Protocol for Determining Stream and Point Source Discharge Design Hardness, 386-2000-005, 3/99.
☐	Implementation Guidance for the Determination and Use of Background/Ambient Water Quality in the Determination of Wasteload Allocations and NPDES Effluent Limitations for Toxic Substances, 386-2000-010, 3/1999.
☐	Design Stream Flows, 386-2000-003, 9/98.
☐	Field Data Collection and Evaluation Protocol for Deriving Daily and Hourly Discharge Coefficients of Variation (CV) and Other Discharge Characteristics, 386-2000-006, 10/98.
☐	Evaluations of Phosphorus Discharges to Lakes, Ponds and Impoundments, 386-3200-001, 6/97.
☐	Pennsylvania's Chesapeake Bay Tributary Strategy Implementation Plan for NPDES Permitting, 4/07.
☐	SOP:
☐	Other: